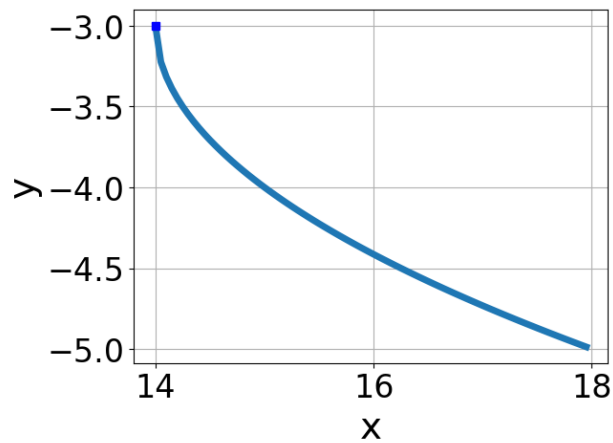
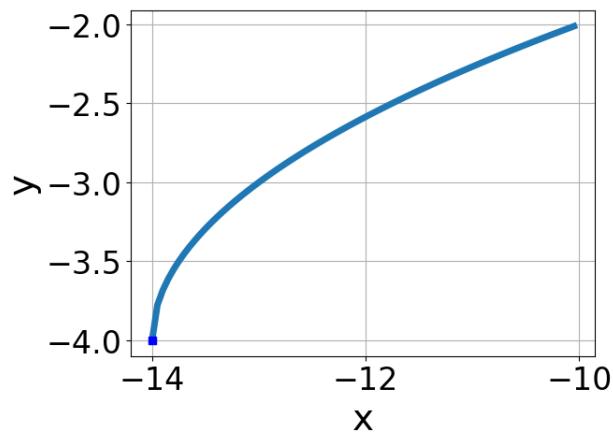


1. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt[3]{x+14} - 3$
B. $f(x) = \sqrt[3]{x-14} - 3$
C. $f(x) = -\sqrt[3]{x-14} - 3$
D. $f(x) = \sqrt[3]{x+14} - 3$
E. None of the above
-

2. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt[3]{x+14} - 4$
B. $f(x) = -\sqrt[3]{x-14} - 4$
C. $f(x) = \sqrt[3]{x+14} - 4$

D. $f(x) = \sqrt[3]{x-14} - 4$

E. None of the above

3. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-15x^2 + 63} - \sqrt{24x} = 0$$

A. $x_1 \in [1.4, 4.4]$ and $x_2 \in [1.6, 3.4]$

B. $x \in [-3, 0]$

C. $x_1 \in [-3, 0]$ and $x_2 \in [-0.5, 2.2]$

D. All solutions lead to invalid or complex values in the equation.

E. $x \in [1.4, 4.4]$

4. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-5x+2} - \sqrt{8x+8} = 0$$

A. $x_1 \in [-0.55, -0.31]$ and $x_2 \in [0.4, 7.4]$

B. $x \in [0, 1.15]$

C. All solutions lead to invalid or complex values in the equation.

D. $x_1 \in [-1.33, -0.99]$ and $x_2 \in [0.4, 7.4]$

E. $x \in [-0.55, -0.31]$

5. What is the domain of the function below?

$$f(x) = \sqrt[5]{-6x+7}$$

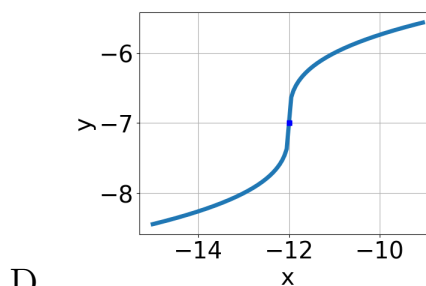
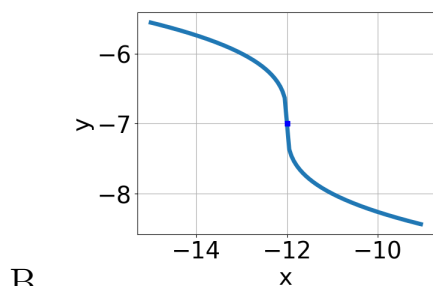
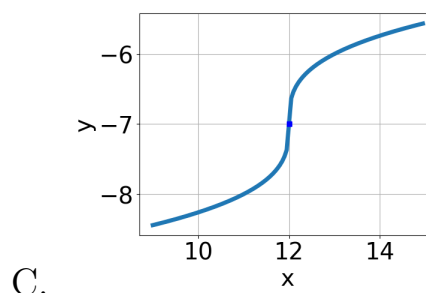
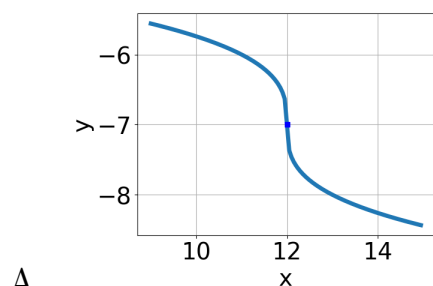
A. $(-\infty, \infty)$

B. The domain is $(-\infty, a]$, where $a \in [1.02, 1.48]$

- C. The domain is $(-\infty, a]$, where $a \in [0.74, 0.96]$
 D. The domain is $[a, \infty)$, where $a \in [0.21, 1.13]$
 E. The domain is $[a, \infty)$, where $a \in [1.03, 1.43]$

6. Choose the graph of the equation below.

$$f(x) = \sqrt[3]{x + 12} - 7$$



E. None of the above.

7. What is the domain of the function below?

$$f(x) = \sqrt[7]{-9x + 3}$$

- A. The domain is $[a, \infty)$, where $a \in [2, 5]$
 B. The domain is $(-\infty, a]$, where $a \in [0.3, 1.1]$
 C. The domain is $(-\infty, a]$, where $a \in [2.8, 4.1]$
 D. The domain is $[a, \infty)$, where $a \in [-5.67, 2.33]$
 E. $(-\infty, \infty)$

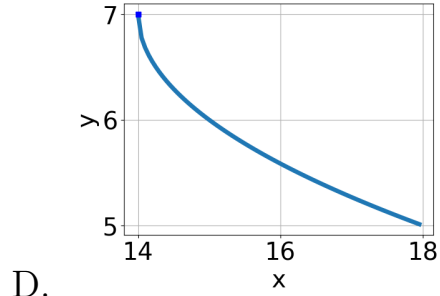
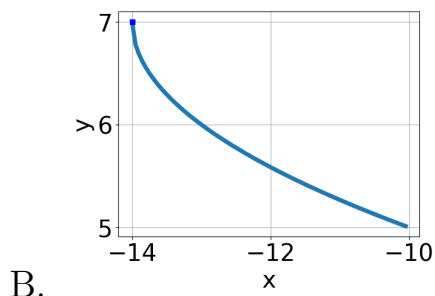
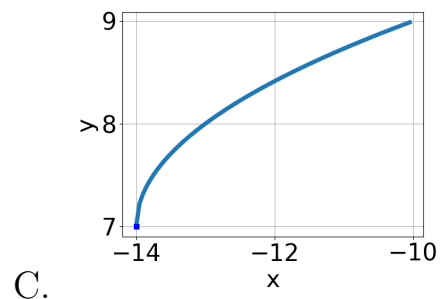
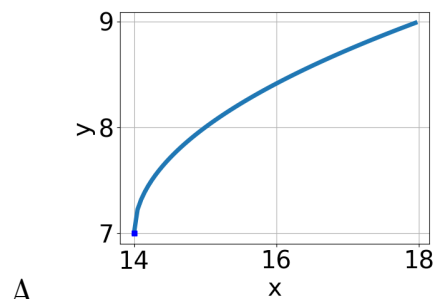
8. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-36x^2 - 10} - \sqrt{-42x} = 0$$

- A. $x_1 \in [0.15, 0.65]$ and $x_2 \in [0.6, 1.6]$
B. $x \in [0.7, 0.85]$
C. $x \in [0.15, 0.65]$
D. All solutions lead to invalid or complex values in the equation.
E. $x_1 \in [-0.47, -0.2]$ and $x_2 \in [-2.6, -0.7]$

9. Choose the graph of the equation below.

$$f(x) = \sqrt{x - 14} + 7$$



- E. None of the above.

10. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{9x - 9} - \sqrt{-5x - 3} = 0$$

- A. $x_1 \in [-0.87, 0.4]$ and $x_2 \in [1, 5]$
 - B. $x \in [-0.11, 0.48]$
 - C. All solutions lead to invalid or complex values in the equation.
 - D. $x \in [0.78, 1.87]$
 - E. $x_1 \in [-0.11, 0.48]$ and $x_2 \in [1, 5]$
-